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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,300	06/21/2007	Eric Thor Fossel	S1509.70037US01	7179
23628	7590	03/10/2008	EXAMINER	
WOLF GREENFIELD & SACKS, P.C. 600 ATLANTIC AVENUE BOSTON, MA 02210-2206			TREYGER, ILYA Y	
		ART UNIT	PAPER NUMBER	
		3761		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/590,300	FOSSEL, ERIC THOR	
	Examiner	Art Unit	
	ILYA Y. TREYGER	3761	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 21 June 2007.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-29 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-29 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 01/22/2007.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____.

DETAILED ACTION

Claims 1-29 of US Application 10/590,300, filed 06/21/2007 are presented for examination.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3, 5-9, 11-15, 17-19, 21, 22, and 24-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Fossil (US 2003/0028169).

3. In Re claim 1, Fossil discloses the method comprising an act of:

applying a base cream which is a delivery vehicle (P. 1, [0015], ln. 1-2) comprising a L-arginine which is a nitric oxide donor (P. 1, [0015], ln. 3) to a region of skin for a period of time sufficient for treatment fully capable for sagging skin treatment.

4. In Re claims 3 and 19, Fossil discloses the method wherein the delivery vehicle is a cream (P. 1, [0015], ln. 1-2).

5. In Re claim 5, Fossil discloses the method wherein the region of skin is the hand (P. 1, [0015], ln. 6).

6. In Re claims 6 and 24, Fossil discloses the method wherein the nitric oxide donor comprises L-arginine (P. 1, [0015], ln. 1-3).

7. In Re claim 7, Fossil discloses the method wherein the effective concentration of L-arginine is 12.5% (P. 1, [0015], ln. 3) what reads on "at least 5%" as claimed.

8. In Re claims 8 and 21, Fossil discloses the method wherein the delivery vehicle comprises the water or the oil (P. 1, [0015], ln. 7).

9. In Re claims 9 and 22, Fossil discloses the method fully capable to be repeatable (P. 1, [0015], ln. 1-3).

10. In Re claim 11 and 25, Fossil discloses the method wherein the delivery vehicle comprises a sodium chloride, which is a penetrating agent (P. 1, [0010], ln. 3).

11. In Re claim 12, since Fossil discloses the concentration of nitric oxide donor L-arginine of 12.5% (P. 1, [0015], ln. 3) as claimed, this amount of arginine is fully capable of producing the claimed function, i. e. act for at least about 3 hours, as per claim 12.

12. In Re claim 13 and 26, Fossil discloses the method wherein the penetrating agent comprises a sodium chloride, which is an ionic salt (P. 1, [0010], ln. 3).

13. In Re claim 14, 15, 27, and 28, Fossil discloses the method wherein the ionic salt comprises sodium chloride, magnesium chloride, or choline chloride (P. 1, [0015], ln. 4-7), and their combined amount is 10% as per claims 15 and 28.

14. In Re claim 17, Fossil teaches the presence of hostile environment (Abstract, ln. 4-6).

15. In Re claim 18, Fossil discloses the method comprising an act of:
applying a delivery vehicle (P. 1, [0015], ln. 1-2) comprising a L-arginine which is a nitric oxide donor (P. 1, [0015], ln. 3) to a region of skin fully capable to be applied for a period of time sufficient to allow the skin to absorb a sufficient quantity of nitric oxide to produce a smoother surface in the region of skin.

16. In Re claim 29, Fossil discloses the method discussed above, which is fully capable for being administered to a subject diagnosed with breast ptosis, since the ptosis is a consequence of the sagging skin.

Claim Rejections - 35 USC § 103

17. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

18. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

19. Claims 10 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fossil (US 2003/0028169).

20. In Re claim 10, Fossil discloses the claimed invention discussed above, but does not expressly disclose the method comprising repeating the act of reapplying the delivery vehicle to the region of skin between 2 and 30 times, inclusively, within a time period of about 30 days.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use claimed time range and overall duration of

treatment, since the overall duration of the medical treatment by local action compositions and the rate of application of said compositions depend of the type of skin disease, degree of the skin lesion, and degree of the positive reaction of the patient, and therefore is the matter of routine experimentation what lies within the routine skill in the art.

21. In Re claim 23, Fossil discloses the claimed invention discussed above, but does not expressly disclose the method comprising repeating the act of reapplying the delivery vehicle to the region of skin after between about 8 hours and about 48 hours after the act of applying the delivery vehicle.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use claimed time repeating range because the treatment time repeating range depends of the skin resistance level, which can vary from patient to patient, and therefore is the matter of optimization.

21. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fossil (US 2003/0028169) in view of Nakata et al. (US 5,332,758).

Fossil discloses the claimed invention discussed above, but does not expressly disclose the method wherein the sagging is determined using viscoelasticity.

Nakata teaches that it is known to use Skin Viscoelasticity Test for skin diseases diagnostics (See Col. 17, ln. 9-43).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Fossil with the determination of sagging skin, as taught by Nakata, because such modification would provide the most accurate diagnostic of the specific disease prior the therapeutic treatment.

22. Claims 4 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fossil (US 2003/0028169) in view of Cooper (US 6,387,081).

Fossil discloses the claimed invention discussed above, but does not expressly disclose the method comprising rubbing the delivery vehicle into the region of skin.

Cooper refers to generally conventional way to apply skin treatment compositions by rubbing-in with the fingers (Col. 1, ln. 32-34).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Fossil with the delivering composition into the region of skin by rubbing, as suggested by Cooper, because such modification would simplify the treatment by using well known traditional techniques.

23. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fossil (US 2003/0028169) in view of Marty (US 4,702,913).

Fossil discloses the claimed invention discussed above, but does not expressly disclose the method wherein the nitric oxide donor comprises one or more of a polysaccharide-bound' nitric oxide-nucleophile adduct, a N-nitroso-N-substituted hydroxylamines, a compound containing a sulphydryl group and a NO donor group, 1,3- (nitrooxymethyl)phenyl-2-hydroxybenzoate, a gel comprising a nitrite salt and an acid, S- nitrosothiols, a nitrite, a 2-hydroxy-2-nitrosohydrazine, a substrate for nitric oxide synthase, a cytokine, an adenosine, bradykinin, calreticulin, bisacodyl, phenolphthalein, or endothelein.

Marty teaches that it is known to use adenosine in the cosmetic compositions (See Col. 2, ln. 42-43).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Fossel with the use of adenosine, as taught by Marty, because such modification would improve cosmetic or/and therapeutic effect, since adenosine promotes the release of the nitric oxide radical.

Conclusion

24. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 6,375,672 disclose the METHOD FOR CONTROLLING THE CHEMICAL AND HEAT INDUCED RESPONSES OF COLLAGENOUS MATERIALS. US 200210037854 disclose the USE OF AT LEAST ONE NO SYNTHASE INHIBITOR FOR TREATING SENSITIVE SKIN. US 4,976,952 disclose the MACROMOLECULAR, SURFACE-A<;TIVE, QUATERNARY, N-SUBSTITUTED CHITOSAN DERIVATIVES AS WELL AS COSMETIC COMPOSITION BASED ON THESE NEW CHITOSAN DERIVATIVES.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ILYA Y. TREYGER whose telephone number is (571)270-3217. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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